

Claims:

1. Method for the determination of the activity of immune cells in dependence on a compound, having the following method steps:

- isolating the immune cells,
- introducing target cells,
- introducing a substrate which changes its structure through the activity of cells,
- determining the base activity of the mixture of immune cells, target cells and the substrate using spectrometer analysis,
- adding the active substance,
- measuring the reaction activity of the mixture using spectrometer analysis,
- comparing the measurement results with the base activity and the reaction activity of the mixture,
- determining the strength of the reaction based on the comparison,

characterized in that

- industrially applicable active substances in the form of xenogenic (not naturally occurring in the body) pharmaceutical products are utilized,
- only the immune cells of one human being or one single animal are utilized as immune cells,
- the reaction of the immune cells to the xenogenic pharmaceutical product is individually evaluated for the organism,
- the analysis determines the tolerance and/or effectiveness of the xenogenic pharmaceutical product for the organism, and,
- if necessary, the method is carried out either simultaneously or, in the event of undesirable effects, in series using differing xenogenic pharmaceutical products and/or pharmaceutical product mixtures to determine the optimal effectiveness and tolerance of possible alternative xenogenic pharmaceutical products available for selection.

- ~~2. Method according to claim 1, characterized in that homeopathic active substances, natural products of plant, animal and bacterial origin or mixtures of active substances are utilized as the *xenogenic* pharmaceutical product.~~
- ~~3. Method according to claim 1, characterized in that cancer cells are utilized as target cells.~~
- ~~4. Method according to claim 1, characterized in that virus-infected cells are utilized as target cells.~~
- ~~5. Method according to claim 1, characterized in that normal cells (allogenic, autogenic or *xenogenic* cells) are utilized as target cells.~~
- ~~6. Method according to any one of the preceding claims, characterized in that a tetrazolium salt is utilized as the substrate.~~
- ~~7. Method according to claim 6, characterized in that the tetrazolium salt MTT (3-{4,5 dimethylthiazole-2-yl}-2,5-diphenyl tetrazolium bromide) is utilized.~~
- ~~8. Method according to claim 6, characterized in that the tetrazolium salt XTT (2,3-bis{2-methoxy-4-nitro-5-sulfophenyl}-5-({phenyl amino}carbonyl)-2H-tetrazolium hydroxide) is utilized.~~

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